## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A method for manufacturing hollow shafts having first and second end portions of greater wall thickness and at least two intermediate portions of reduced wall thickness, from a tube having constant wall thickness, comprising:

providing a mandrel having diameters stepped over its length, including at least a first longitudinal section having a smallest first diameter and, adjacent to said first longitudinal section, a second longitudinal section having a second diameter being greater than said first diameter of said first longitudinal section, and, adjacent to said second longitudinal section, a third longitudinal section having a third diameter being greater than said second diameter of said second longitudinal section, the mandrel comprising a first transition portion between said first longitudinal section and said second longitudinal section, the mandrel further comprising a second transition portion between said second longitudinal section and said third longitudinal section;

inserting the mandrel into the tube;

reducing the external diameter of a first portion of the tube over the first longitudinal section of the mandrel to produce the first end portion;

reducing the external diameter of at least one first middle portion of the tube over said second longitudinal section of said mandrel to produce a first intermediate portion of said at least two intermediate portions of said hollow shaft, said first intermediate portion of said hollow shaft being arranged adjacent to said first end portion;

reducing the external diameter of at least one second middle portion of the tube over said third longitudinal section of said mandrel to produce a second intermediate portion of said at least two intermediate portions of said hollow shaft, said second intermediate portion of said hollow shaft being arranged adjacent to said first intermediate portion of said hollow shaft; and

reducing the external diameter of a further portion of the tube over the first, the second or another longitudinal section of the mandrel to produce the second end portion:

wherein a wall thickness ratio between the first end portion of the hollow shaft and an intermediate portion having a smallest wall thickness is greater than 1.6.

2-9. (Canceled)

10. (Previously Presented) The method according to claim 1, wherein the first end portion and

one or more intermediate portions of the hollow shaft, having a reduced wall thickness in each case,

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are produced with an unchanged axial position of the mandrel in relation to the tube.

11. (Currently Amended) The method according to claim 1, wherein the second end portion of

the hollow shaft is produced over the first longitudinal section of the mandrel.

12. (Canceled)

13. (Previously Presented) The method according to claim 11, wherein one or more further

intermediate portions, each having an increased wall thickness, and the second end portion are each

produced with a changed axial position of the mandrel in relation to the tube.

14. (Canceled)

15. (Previously Presented) The method according to claim 11, wherein at least two intermediate

portions, alternately having first increased, then reduced wall thickness, are produced with an

unchanged axial position of the mandrel in relation to the tube in each case.

16. (Canceled)

17. (Previously Presented) The method according to claim 1, wherein the steps of reducing

comprise cold drawing using a matrix, through which the tube is guided from one tube end, and

wherein the tube and mandrel are on one side and the matrix is on the other side moving axially in

relation thereto.

18. - 20. (Canceled)

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- 21. (Previously Presented) The method according to one claim 1, wherein the external diameter of the tube is reduced through swaging, roll bending, or rolling.
- 22. (Canceled)
- 23. (Previously Presented) The method according to claim 1, wherein transition areas between end portions and intermediate portions, and transition areas between intermediate portions of different wall thicknesses are formed by internal conical surfaces having a cone opening angle between 5° and 45°.
- 24. 27. (Canceled)
- 28. (Previously Presented) The method according to claim 1, wherein a wall thickness ratio between the end portions and the intermediate portion of smallest wall thickness is greater than 1.6.
- 29. (Canceled)